Appl. No. 10/780,484 25771 US1

Amdt. Dated 10/13/2009

Reply to Office action of: 07/21/2009

AMENDMENTS TO THE CLAIMS

In the claims, please amend claims 1, 10 and 19 as follows:

1. (currently amended) A composition for delivering a polynucleotide to a mammalian cell comprising: a membrane active polynucleotide conjugate wherein:

- a) the polyamine has molecular weight greater than 10,000 daltons;
- b) the polyamine is linked to the polynucleotide via a labile covalent bond; and,
- c) one or more a plurality of amines on the polyamine are reversibly modified by attachment of functional carboxyl groups via pH labile covalent bonds to form a negatively charged polymer wherein breakage of the pH labile covalent bonds in response to a decrease in pH results in cleavage of the functional carboxyl groups from the polyamine and restoration of the amines on the polyamine.
- 2. (canceled)
- 3. (previously presented) The composition of claim 1 wherein the polynucleotides consists of an oligonucleotide.
- 4. (original) The composition of claim 3 wherein the polynucleotide is selected from the group consisting of: dsRNA, siRNA, microRNA, siRNA expression cassette, antisense oligonucleotide and ribozyme.
- 5. (canceled)
- 6. (previously presented) The composition of claim 1 wherein the polyamine consists of a polyvinyl ether.
- 7. (previously presented) The composition of claim 1 wherein the polyamine consists of an amphipathic polymer.
- 8. (canceled)
- 9. (canceled)
- 10. (currently amended) A composition for delivering a biologically active compound to a cell comprising: a membrane active polyamine-biologically active compound conjugate wherein the polymer is linked to the biologically active compound via a labile covalent bond and one or more a plurality of amines on the polymer are reversibly modified by attachment of functional carboxyl groups via labile covalent bonds to form a negatively charged polymer wherein breakage of the labile covalent bonds results in cleavage of the functional carboxyl groups from the polyamine and restoration of the amines on the polyamine.

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11. (original) The composition of claim 10 wherein the biologically active compound comprises a polynucleotide.

- 12. (original) The composition of claim 11 wherein the polynucleotides consists of an oligonucleotide.
- (original) The composition of claim 12 wherein the polynucleotide is selected from the group consisting of: dsRNA, siRNA, microRNA, siRNA expression cassette, antisense oligonucleotide and ribozyme.
- 14. (canceled)
- 15. (original) The composition of claim 10 wherein the polyamine consists of an amphipathic polymer.
- (original) The composition of claim 10 wherein the polyamine consists of a polyvinyl ether.
- (original) The composition of claim 10 wherein the polyamine consists of a peptide.
- 18. (original) The composition of claim 17 wherein the peptide comprises pardaxin.
- 19. (currently amended) A method for delivering a biologically active compound to a cell comprising:
 - a) attaching the biologically active compound to an amphipathic membrane active polyamine via a labile bond to form a conjugate,
 - b) reversibly modifying a plurality of amines on the amphipathic membrane active polyamine by covalent attachment of functional carboxyl groups to the amines via labile bonds to form a negatively charged polymer wherein cleavage of the labile bonds restores the amines on the amphipathic membrane active polyamine; and,
 - c) contacting the cell with the conjugate.
- (original) The method of claim 19 wherein the biologically active compound comprises a polynucleotide.